

### ABSTRACT OF THE DISCLOSURE

In general, a three dimensional microphone and a three dimensional hearing aid is described. The microphone and hearing aid typically have two boundaries that contribute to the increased frequency response and three dimensional response of the microphone. A 5 microphone element is oriented in and flush with the first boundary which is typically the forward face of a hearing aid. A second boundary, which is typically a boundary button is oriented above and generally parallel with the microphone element creating an overall improvement in frequency response.